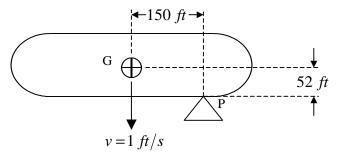# Example Problem - Le 20

Ex.   Wind causes the 600-ton (37,267 slug) ship to drift sideways at 1-ft/s and strike the smooth stationary quay at P.   The ships centroidal mass moment of inertia is $3x10^8$ slug-ft^2 and the coefficient of restitution is 0.2.

What is the ship's angular velocity after the impact?

$$\leftarrow 150 \; ft \rightarrow$$

G

52 *ft*

P

$v = 1 \; ft/s$